

Recombinant Human Activin A

Cat. No. INHBA-2884H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Activin A produced in Insect cells is a 26 kDa disulfide-linked homodimer of two beta A chains, each containing 116 amino acid residues.
Species	Human
Source	Insect Cells
Description	Activin A is a TGF-beta family member that exhibits a wide range of biological activities including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in post-menopausal woman have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF-beta antagonist, Follistatin.
Form	Lyophilized.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Endotoxin Level	< 0.1 ng per µg of Activin A.
Biological Activity	The ED50 as determined by its ability to inhibit the proliferation of murine MPC-11 cells is < 2 ng/ml, corresponding to a specific activity of > 5 x 10 ⁵ units/mg.
Reconstitution	The human Activin A should be reconstituted in water to a concentration of 0.5 mg/ml. This solution can be stored at 4°C for 1 month or -20°C for future use. It is

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recommended that further dilutions be made in PBS containing 2 mg/ml albumin and stored at -20°C.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Human Activin A is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [INHBA inhibin, beta A \[Homo sapiens \]](#)

Synonyms

INHBA; inhibin, beta A; EDF; FRP; Inhibin, beta-1; OTTHUMP00000207260; FSH-releasing protein; erythroid differentiation factor; follicle-stimulating hormone-releasing protein; inhibin, beta A (activin A, activin AB alpha polypeptide); Activin beta-A chain; Erythroid differentiation protein; FSH-releasing protein

Gene ID [3624](#)

mRNA Refseq [NM_002192](#)

Protein Refseq [NP_002183](#)

MIM [147290](#)

UniProt ID [P08476](#)

Chromosome Location 7p15-p13

Pathway Cytokine-cytokine receptor interaction; TGF-beta signaling pathway

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Function

cytokine activity; follistatin binding; growth factor activity; hormone activity; identical protein binding; protein heterodimerization activity; signal transducer activity



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